

SIO Shipyard Representative Bi-Weekly Progress Report		
<b>Project: AGOR 28</b>	<b>Contract No.: N00014-12-C-0305</b>	<b>Shipyard: Dakota Creek Industries</b>
<b>Prepared by:</b> Paul D. Bueren Scripps Institution of Oceanography (SIO) 297 Rosecrans St. San Diego, CA 98106	<b>Date:</b> <b>March 14, 2013</b>	<b>Program Officer:</b> Robert (Tim) Schnoor Office of Naval Research 875 Randolph St ONR 321 Arlington, VA 22203-1995
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1. Meetings:

- i. Participated in weekly conference call.
- ii. Participated in weekly discussion between DCI, GPA and POE.
- iii. Participated in weekly IO meetings.
- iv. Participated in Phase III Planning meeting.

2. The following DRL's were reviewed and commented on:

Ship	DRL #	Document Title	OCC#
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA ( TM 505 FNW 311A Ball Valve) (R/ASR)	263/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS ( PL 72489-01 NR NIBCO T-585-70-SU Ball Valve) (R/ASR)	400/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA ( QSK38-DM Supplemental Data) (R/ASR)	257/0
AGOR27	A033-03	STD Report - QUARTERLY WEIGHT REPORT ( QUARTERLY WEIGHT REPORT)	2/0
AGOR27	A031-03	STD Report - TEST PROCEDURES ( DI 031 03 AHS(Anchor Handling System) Test Procedure and Validation) (R/ASR)	1/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS ( VRS Database PL 72001-04 Letter - Siemens BlueDrives) (R/ASR)	396/0
AGOR27	A002	STD Report - DESIGN REVIEW AGENDAS AND MINUTES ( DR 8 PRESENTATION) (R/ASR)	47/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA ( 2013 02 19 Letter 235 Siemens BlueDrive) (R/ASR)	261/0
AGOR27	A035-15	DWG Report - MCS BLOCK WIRING/ SYSTEM ARCHITECTURE DIAGRAM ( MCS Block Wiring Diagram)	1/2
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA ( 624a IMS Sliding Watertight Doors) (R/ASR)	259/0

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AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS ( PL 72043-01 Letter - IMS Watertight Doors) (R/ASR)	394/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA ( 624a IMS Sliding Watertight Doors) (R/ASR)	259/0
AGOR27	A035-15	DWG Report - MCS BLOCK WIRING/ SYSTEM ARCHITECTURE DIAGRAM ( MCS Block Wiring Diagram)	1/2
AGOR27	A007	STD Report - PURCHASE ORDERS (PO) ( PO #72491 MARINE SYSTEMS) (R/ASR)	409/0
AGOR27	A035-15	DWG Report - MCS BLOCK WIRING/ SYSTEM ARCHITECTURE DIAGRAM ( MCS Block Wiring Diagram)	1/2
AGOR27	A007	STD Report - PURCHASE ORDERS (PO) ( IMS PO #72043) (R/ASR)	399/0
AGOR27	A024	STD Report - REGULATORY BODY CORRESPONDENCE (ABS GPA Correspondence (Winch Review)) (R/ASR)	97/1
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS ( PL 72310-20 Letter - Pauluhn FRD317) (R/ASR)	368/1
AGOR28	A006-08	STD Report - PURCHASE ORDER (PO) INDEX ( PO INDEX 2 28 13 AGOR II)	24/0
AGOR27	A024	STD Report - REGULATORY BODY CORRESPONDENCE (ABS GPA Correspondence (Winch Review)) (R/ASR)	97/0
AGOR28	A007	STD Report - PURCHASE ORDERS (PO) ( PO #73260 PUMP INDUSTRIES) (R/ASR)	259/0
AGOR27	A007	STD Report - PURCHASE ORDERS (PO) ( PO #72428 PUMP INDUSTRIES) (R/ASR)	397/0
AGOR27	A027-16	DWG Report - AUXILIARY SYSTEMS REPORT (FUEL OIL DIAGRAM) (R/ASR)	16/5

3. The following Shipyard Question Submittals were reviewed and commented on:

#### Q85 – Diesel Generator

“DCI requests confirmation that testing only Diesel Generator serial #33193454 (diesel) and serial #179477 (generator) for AGOR-27 is confirmed by the government. The acoustic FAT has already been performed for this serial Diesel Generator and a report from NCE has been issued. DCI agrees that another FAT will be performed for one Diesel Generator to be put on AGOR-28. DCI suggests that the FAT be performed for the Diesel Generator package that has the generator with the highest vibration.”

Update:

The four Neil Armstrong skid mounted Generator Sets have been placed in the Engine Space. #4 Genset has been placed on its mounts. The yard is in the process of placing the remaining three gensets on their mounts. No word yet as to when AGOR 28 Genset(s) will be tested and delivered.

#### Q86- CFR Interpretation for Over Current Device

Question: J-1 section 070b states "The ship shall be designed, constructed, and tested in accordance with IEEE 45." IEEE 45 Section 5.8.1, Branch Circuits, General, states "The maximum connected load should neither exceed the rated current-carrying capacity of the cable nor 80% of the overcurrent protective device setting or rating." GPA interpreted this paragraph as required by the CFR:111.40-15 Over Current device.

#### Government Response:

"The Government does not approve using GPA's CFR interpretation as an alternative to the IEEE 45 requirement. The maximum connected load of all branch circuits shall not exceed the rated current-carrying capacity of the cable nor 80% of the overcurrent protective device setting or rating as required by IEEE 45. "

#### Q87 Docking Plan Block Arrangement

#### Government Response:

"The purpose of the third blocking position is to provide full exposure of the underwater hull for painting and inspection after three consecutive dockings. Since the two blocking positions in the current Docking Plan, Rev -, provides full exposure of the underwater hull in two consecutive dockings, a third blocking position is not required."

#### 5. Logistics:

- i. Continuing to review Vendor Recommended Spares (VRS).
- ii. Continuing to review Technical Manuals and Supplemental Information.

#### 6. Other Work Items:

- Input / Output List (IO) – Continued with weekly working sessions to do system by system checks of the IO list. The following drawings were reviewed and compared to the IO list: Potable Water, Chill Water and Seawater. Questions, discrepancies and omissions were noted for future discussions with Siemens. The current I/O list is preliminary and subject to change.
- Siemens Mimic Screens – Marking up mimic screens for the Siemens control and alarm system. Making comparisons to I/O list and compiling a list of questions, operator preferences and omissions. The current Mimic Screens are preliminary and subject to change.
- DR8 Preparation – Attended onsite meeting with Government, GPA and operators regarding additional DR8 "Topics For Discussion". Items included Handling System Progress, Mast FEA, Bridge Console Mark-up, and the Stern Motor CO2 system. In addition the government is asking for the status of various DI's. In particular the Steering and Auxiliary Hydraulic Systems, Handling System Arrangements, System Integration Plan and MCSC and SCC Face Arrangements.
- CSS – Commented on DCI revisions to Section 432a Sound Powered Telephone System. Yard has divided the system into 3 sub- systems of Ship's Control, Fuel Stations and Deck Operations. This change does not match the previously submitted drawing from IMCOS, but does meet the requirements. The operators agreed to the change. The lack of an updated drawing made the review more difficult and the government believes that future changes of this scope should be submitted as a question. The IMCOS drawing shows 29 Sound Powered Phones and Jacks and the CSS revision shows 41 by my count.

- CSS – Commented on DCI revisions to Sections 421 & 438 and changes in gyro repeater manufacturer from Yokogawa to Sperry. These changes were made last year and noted when the PO's and Technical Manuals were delivered. SIO agreed with the changes.
- Machinery Space Insulation – Meeting scheduled with DCI to discuss the scope of the insulation in the machinery space. In particular, the side shells insulations proximity to the bilge. The current design has the insulation terminating mere 4-inches above the tank top where it will be exposed to bilge water. The operators believe it should be at least a foot off the deck, if not at the grating level. The operators also have concerns about the placement of sound deadening tiles on the machinery tank tops in regards to the affect of oil and water on the adhesive.
- AGOR 27 Generator Sets – The yard has placed the #4 Generator Set on to its isolation mounts. An initial load height measurement was taken. Another set of measurements will be taken and recorded after 48-hours for the "primary creep". Additional measurements will be taken after all of the attachments have been made and the Generator Sets are put into service.
- AGOR 28 Potable Water Tanks (P&S) – Witnessed final structure and weld inspection with ABS in attendance. No reportable discrepancies noted with the exception of four Rat Holes having some rough edges. The yard to break the edges prior to painting.
- AGOR 28 Mech/Elect Locker, Main Deck 3 (MD-3) – Witnessed final structural and weld inspection with ABS in attendance. No reportable discrepancies noted.
- AGOR 28 Module 3 – Verified installation of HiPAP Valve and Flange.
- AGOR 28 Module 2 – Module scheduled for move and fitting to Module 3 tomorrow afternoon (3/15/13), with work over the weekend to complete the fit up.
- AGOR 28 Mod 5 – Starboard Wing Tank sub-assembly started 2/14.
- AGOR 27, Mod 3 – Witnessed final structural and weld inspection of Galley, Scullery, Frozen Stores and Chill Stores Spaces. ABS in attendance. No reportable discrepancies noted.